Author Index

Asah, H., *see* El Fadl, M.A. et al.
Bäumler, W., *see* Blaschke, H. and Bäumler, W.
Blaschke, H. and Bäumler, W. (München, Federal Republic of Germany)
Mycophagy and spore dispersal by small mammals in Bavarian forests 237
Buech, R.R. and Rugg, D.J. (St. Paul, MN, U.S.A.)
Biomass relations of shrub components and their generality 257
Cannell, M.G.R. (Penicuik, Great Britain)
Book review of *Tree Crop Physiology*, by M.R. Sethuraj and Raghavendra, A.S. (Editors) 153
Chambers, J.L., *see* Jenkins, M.W. and Chambers, J.L.
Davis, E.A. (Tempe, AZ, U.S.A.)
Prescribed fire in Arizona chaparral: effects on stream water quality 189
Dedek, W. and Pape, J. (Leipzig, German Democratic Republic)
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. I. Studies with ^{32}P-labelled methamidophos in the ascending sap of spruce 47
Dedek, W., Pape, J. (Leipzig, German Democratic Republic), Grimmer, F. and Körner, H.-J. (Bitterfeld, German Democratic Republic)
Integrated pest control in forest management – combined use of pheromones and insecticides for attracting and killing the bark beetle *Ips typographus*. II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce 63
El Fadl, M.A., Gronski, S., Asah, H., Tripton, A., Fulbright, T.E. and Felker, P. (Kingsville, TX, U.S.A.)
Regression equations to predict fresh weight and three grades of lumber from large mesquite (*Prosopis glandulosa* var. *glandulosa*) in Texas 275
Felker, P., *see* El Fadl. M.A. et al.
Friend, A. and Hafley, W.L. (Raleigh, NC, U.S.A.)
Climatic limitations to growth in loblolly and shortleaf pine (*Pinus taeda* and *P. echinata*): A dendroclimatological approach 113
Fulbright, T.E., *see* El Fadl, M.A. et al.
Grimmer, F., *see* Dedek, W. et al.
Gronski, S., *see* El Fadl, M.A. et al.
Hafley, W.L., *see* Friend, A. and Hafley, W.L.
Haines, B., *see* Montagnini, F. et al.
Hall, J.B. (Bangor, Great Britain)
Book review of *Agroforestry: a Decade of Development*, by H.A. Steppler and P.K.R. Nair (Editors) 311
Han, F. (Nanjing, People's Republic of China)
Book review of *Sampling Theory for Forest Inventory. A Teach-Yourself Course*, by P.G. de Vries 151
Iboanugo, A.B.I. (Gwynedd, Great Britain)
Wood production and structure in laboratory-grown cuttings of *Triplochiton scleroxylon* with changes in light intensity 179
Jawa, R.R. and Srivastava, P.B.L. (Selangor, Malaysia)
Dispersal of natural regeneration in some Piai-invaded areas of mangrove forests in Sarawak 155

Jenkins, M.W. and Chambers, J.L. (Baton Rouge, LA, U.S.A.)
Understory light levels in mature hardwood stands after partial overstory removal 247
Körner, H.-J., *see* Dedek, W. et al.
Kreysa, J. (Brussels, Belgium) and Last, F.T. (Edinburgh, Great Britain)
Problems and opportunities for forestry within the European Community - implications for research and development 1
Last, F.T., *see* Kreysa, J. and Last, F.T.
Maghembe, J., *see* Perry, D.A. and Maghembe, J.
Mayhead, G.J. (Gwynedd, Great Britain)
Book review of *Growing Exotic Forests*, by B.J. Zobel, G. van Wijk and P. Stahl 152
Montagnini, F., Haines, B. (Athens, GA, U.S.A.) and Swank, W. (Otto, NC, U.S.A.)
Factors controlling nitrification in soils of early successional and oak/hickory forests in the southern Appalachians 77
Mugasha, A.G. (Lushoto, Tanzania)
Evaluation of simple competition indices for the prediction of volume increment of young jack pine and trembling aspen trees 227
Mwamba, C.K. (Kitwe, Zambia)
Natural variation in fruits of *Uapaca kirkiana* in Zambia 299
Nakos, G. (Athens, Greece)
Concentration of exchangeable and soluble aluminium in acid forest soils in Greece 141
Ngulube, M.R. (Zomba, Malawi)
Provenance variation in *Eucalyptus urophylla* in Malawi 265
Njau, W.L.M., *see* Ole-Meiludie, R.E.L. and Njau, W.L.M.
O'Connell, A.M. (Wembley, Australia)
Nutrient accumulation in and release from the litter layer of karri (*Eucalyptus diversicolor*) forests of southwestern Australia 95
Ole-Meiludie, R.E.L. and Njau, W.L.M. (Morogoro, Tanzania)
Impact of logging equipment on water infiltration capacity at Olmotonyyi, Tanzania 207
Pape, J., *see* Dedek, W. and Pape, J.
see also Dedek, W. et al.
Parresol, B.R. and Thomas, C.E. (New Orleans, LA, U.S.A.)
A density-integral approach to estimating stem biomass 285
Perry, D.A. (Corvallis, OR, U.S.A.) and Maghembe, J. (Nairobi, Kenya)
Ecosystem concepts and current trends in forest management: time for reappraisal 123
Rugg, D.J., *see* Buech, R.R. and Rugg, D.J.
Srivastava, P.B.L., *see* Jawa, R.R. and Srivastava, P.B.L.
Swank, W., *see* Montagnini, F. et al.
Thomas, C.E., *see* Parresol, B.R. and Thomas, C.E.
Tripton, A., *see* El Fadl, M.A. et al.
Weinstein, A. (Bet-Dagan, Israel)
Provenance evaluation of *Pinus halepensis, P. brutia* and *P. eldarica* in Israel 215
Phenology of *Pinus halepensis* at two sites in Israel 305

Subject Index

Acid deposition
  Aluminium in acid forest soils in Greece 141
Agroforestry
  Ecosystem concepts and trends in management: time for reappraisal 123
  European Community forestry, problems and opportunities – implications for research and development 1
  ICRAF – the first decade (book review) 311
  Tree crop physiology (book review) 153
  Uapaca, natural variation in fruits 299
Aluminium, *see* Nutrient dynamics
Analytical methods
  Biomass relations of shrub components and their generality 257
  Competition indices, evaluation of for prediction of volume increment of pine and aspen 227
  Density-integral approach to estimating stem biomass 285
  Pinus taeda and *P. echinata*, climatic limitations to growth 113
  Regression equations to predict weight and grades of *Prosopis* 275
  Sampling theory (book review) 151
  Tree crop physiology (book review) 153
  Understory light levels in mature hardwood stands after partial overstory removal 247
Aspen, *see Populus* spp.
Beetle, bark, *see* Pests, weeds and diseases
Biomass estimation, *see* Analytical methods
Carya spp.
  Factors controlling nitrification in soils 77
Chaparral
  Prescribed fire in chaparral: effects on stream water quality 189
Climate, *see* Environmental effects
Competition index, *see* Analytical methods
Dendroclimatology, *see* Analytical methods
Environmental effects
  Climatic limitations to growth in *Pinus taeda* and *P. echinata* 113
  Understory light levels in mature hardwood stands after partial overstory removal 247
  Wood production and structure in *Triplochiton* with changes in light intensity 179
Eucalyptus spp.
  Nutrient accumulation and release in litter layer 95
  Provenance variation 265
European Community
  Problems and opportunities for forestry within the European Community – implications for research and development 1
Exotic forestry
  Exotic forests (book review) 152
Fauna
  Mycophagy and spore dispersal by small mammals in forests 237

Fire, *see* Management practices, effects of
Hickory, *see Carya* spp.
Integrated pest management, *see* Pests, weeds and diseases
Ips typographus, see Pests, weeds and diseases
Karri, *see Eucalyptus* spp.
Light, *see* Environmental effects
Litter-layer dynamics
Nitrification in soils, factors controlling 77
Nutrient accumulation and release in *Eucalyptus* litter layer 95
Mycophagy and spore dispersal by small mammals in forests 237
Locust, *see Robinia* spp.
Logging, *see* Management practices, effects of
Management practices, effects of
Integrated pest control – use of pheromones and insecticides for the bark beetle *Ips typographus*
I. Studies with ^{32}P-labelled methamidophos 47
II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce 63
Prescribed fire in chaparral: effects on stream water quality 189
Management, large-scale
Ecosystem concepts and trends in management: time for reappraisal 123
Exotic forests (book review) 152
Problems and opportunities for forestry within the European Community – implications for research and development 1
Mangroves
Natural regeneration in mangrove forests 155
Mesquite, *see Prosopis* spp.
Modelling
Density-integral approach to estimating stem biomass 285
Nitrogen, *see* Nutrient dynamics
Nutrient dynamics
Aluminium in acid forest soils in Greece 141
Nitrification in soils, factors controlling 77
Nutrient accumulation and release in *Eucalyptus* litter layer 95
Prescribed fire in chaparral: effects on stream water quality 189
Oak, *see Quercus* spp.
Pests, weeds and diseases
Integrated pest control – use of pheromones and insecticides for the bark beetle *Ips typographus*
I. Studies with ^{32}P-labelled methamidophos 47
II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce 63
Natural regeneration in mangrove forests 155
Phenology of *Pinus halepensis* in Israel 305
Phenological development
Phenology of *Pinus halepensis* in Israel 305
Physiology
Tree crop physiology (book review) 153
Wood production and structure in *Triplochiton* with changes in light intensity 179

Picea spp.
Integrated pest control – use of pheromones and insecticides for the bark beetle *Ips typographus*
I. Studies with ^{32}P-labelled methamidophos 47
II. Effects of methamidophos treatment following bark penetration into the ascending sap of pheromone-baited spruce 63
Pine, *see Pinus* spp.
Pinus spp.
Climatic limitations to growth in *P. taeda* and *P. echinata* 113
Estimating stem biomass, density-integral approach 285
Phenology of *P. halepensis* in Israel 305
Prediction of volume increment of pine and aspen, evaluation of competition indices 227
Provenance evaluation 215
Populus spp.
Evaluation of competition indices for prediction of volume increment of pine and aspen . 227
Prosopis spp.
Regression equations to predict weight and grades of *Prosopis* 275
Provenance evaluation
Eucalyptus provenance variation 265
Pinus provenance evaluation 215
Quercus spp.
Factors controlling nitrification in soils 77
Regeneration
Natural regeneration in mangrove forests 155
Research and development
Problems and opportunities for forestry within the European Community – implications for research and development 1
Robina spp.
Factors controlling nitrification in soils 77
Sampling, *see* Analytical methods
Silvicultural techniques
Problems and opportunities for forestry within the European Community – implications for research and development 1
Spruce, *see Picea* spp.
Triplochiton spp.
Wood production and structure with changes in light intensity 179
Uapaca spp.
Natural variation in fruits 299
Understory dynamics
Biomass relations of shrub components and their generality 257
Understory light levels in mature hardwood stands after partial overstory removal 247
Water dynamics
Impact of logging on water infiltration 207
Prescribed fire in chaparral: effects on stream water quality 189